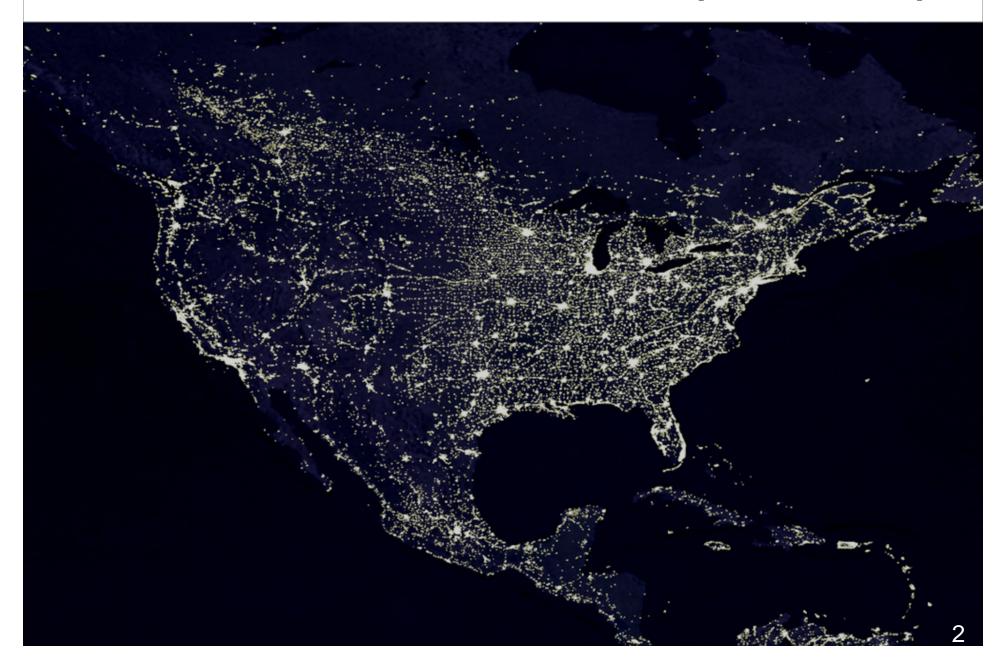
CITY OF CHULA VISTA

FACILITY UPGRADES TO INCREASE ENERGY & WATER EFFICIENCY

Brendan Reed, LEED-AP, CEM
Environmental Resource Manager
Public Works Dept, Conservation Section



WHY CARE ABOUT ENERGY (& WATER)?

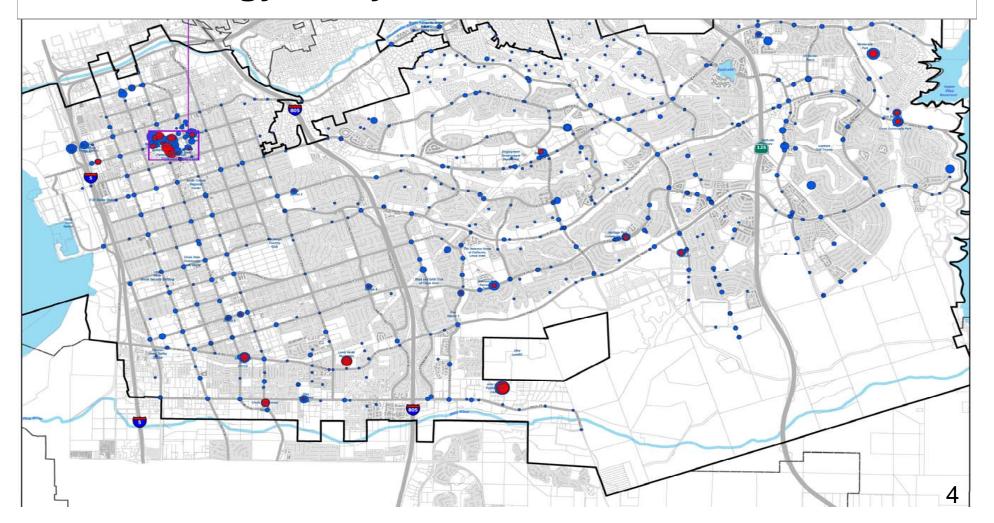


SHOULDN'T WE JUST PUT SOLAR PANELS EVERYWHERE?



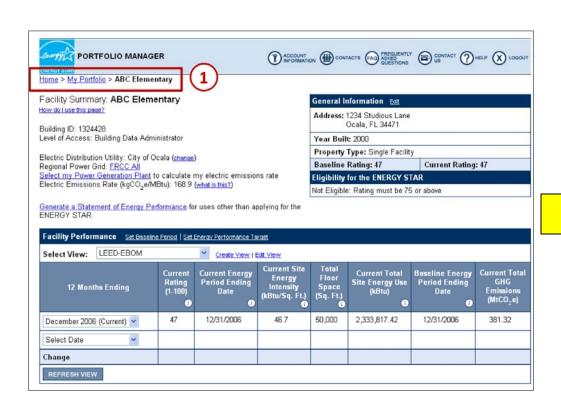
MUNICIPAL ENERGY MANAGEMENT - Case Study

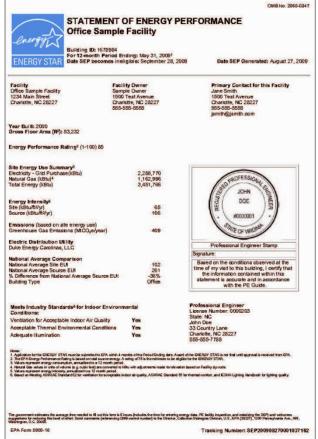
- Energy use 20 million kWh & 1 million therms
- \$6 million in annual utility costs
- 700+ energy utility meters



- Track energy use & demand
- EPA Portfolio Manager

Benchmark energy/water performance ENERGY STAR Building Certification (>75 score)





Share results with leaders, employees, & visitors

This program is funded by California utility ratepayers and administered by SDG&E*, under the auspices of the California Public Utilities Commission





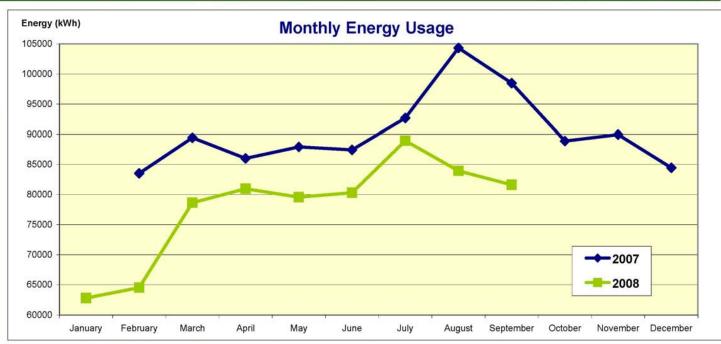
Your Community. Your Environment. Your Choice. www.chulavistaca.gov/clean



CIVIC CENTER LIBRARY

365 F Street Chula Vista CA 91910

<u> </u>	
<u>February</u> -29.462%	September -20.649%
<u>March</u> -13.747%	
<u>April</u> -6.231%	
<u>May</u> -10.514%	
<u>June</u> -8.875%	
<u>July</u> -4.201%	
<u>August</u> -24.293%	



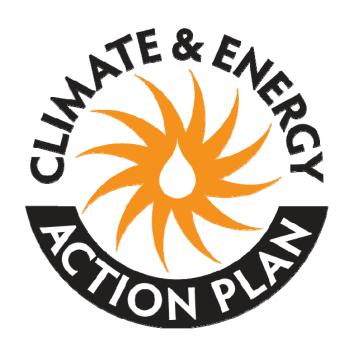
As of September 2008, 91,336 kWh and \$11,960 in savings 10,000 kWh savings = Carbon Emissions from 882 gallons of gasoline

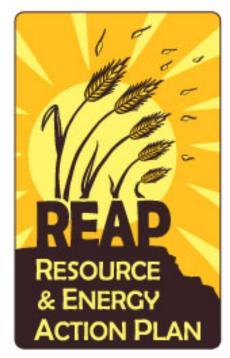
Energy (or Climate) Action
 Plan

Establish goals Leadership support

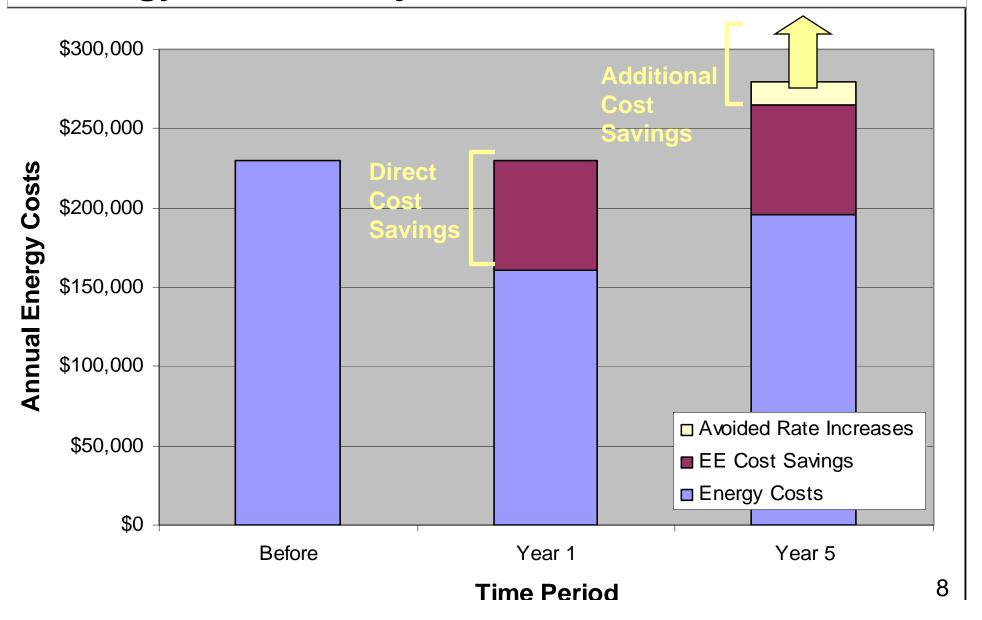
Strategies for...

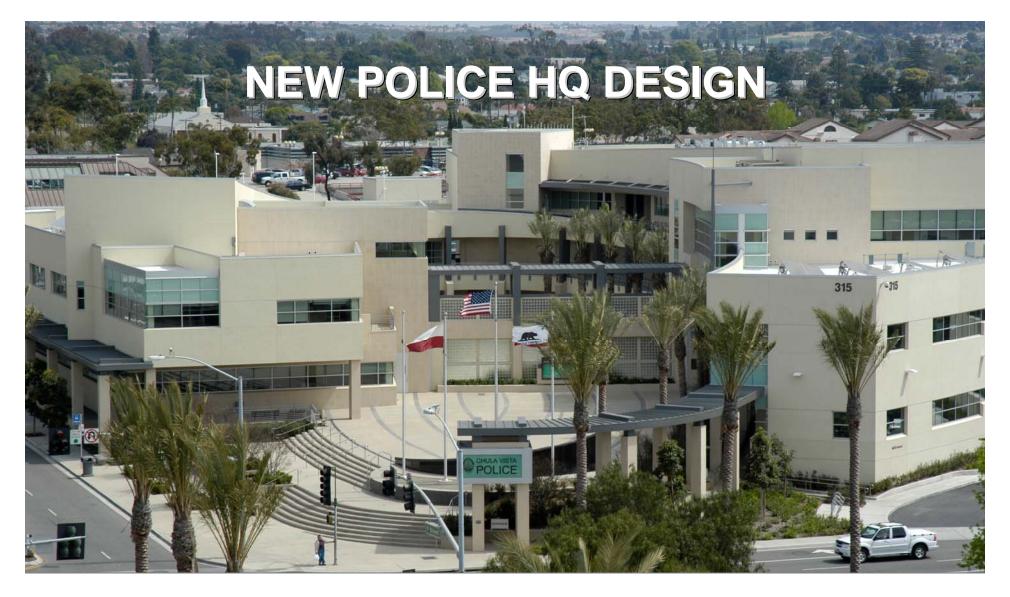
Employee education
Energy efficiency
Renewable energy
ES appliances
New buildings
Revolving fund





Energy Retrofit Projects – Good Investments \$\$\$





- Designed to exceed Title-24 by 21%
- Incorporates a 35 kW solar PV system
- \$230,000 in avoided energy costs annually



- High-efficiency condensing boiler installed
- Coupled with over 70 solar hot water panels
 - \$35,000 in annual cost savings



- 8,300 street lights converted to LED
 - 2.6 million kWh saved annually
- \$492,000 in annual cost savings today



- Simple projects can have some of the best ROI
- Vending machine & PC retrofits saved \$21,000/yr
- Simply switching energy tariffs saved \$119,000/yr

THANK YOU!

Brendan Reed 619-409-5889 breed@chulavistaca.gov www.chulavistaca.gov/clean